

Topics for the Second Midterm Exam

- Implicit differentiation.
- Derivatives of inverse trigonometric functions.
- Derivatives of x^n for $n \in \mathbb{R}$.
- Related rates.
- Relative and absolute extrema.
- Critical points and the first and second derivative tests.
- Concavity and inflection points.
- L'Hospital's Rule.
- Curve sketching.
- Optimization.